

FIG. 1

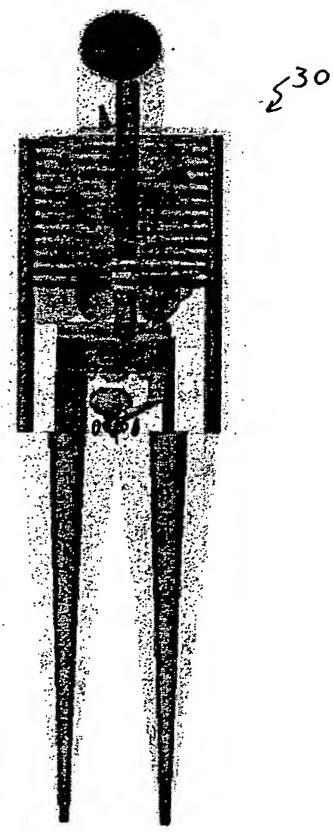


FIG. 2

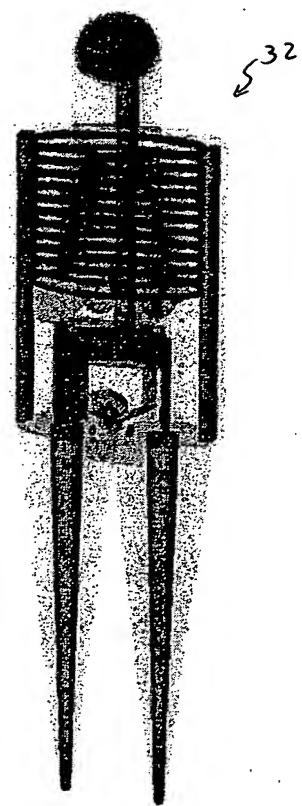


FIG. 3

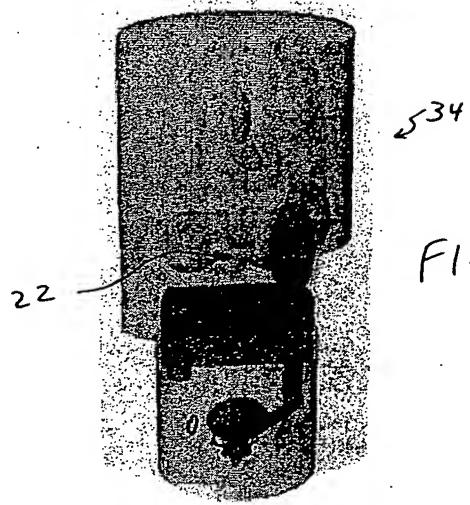
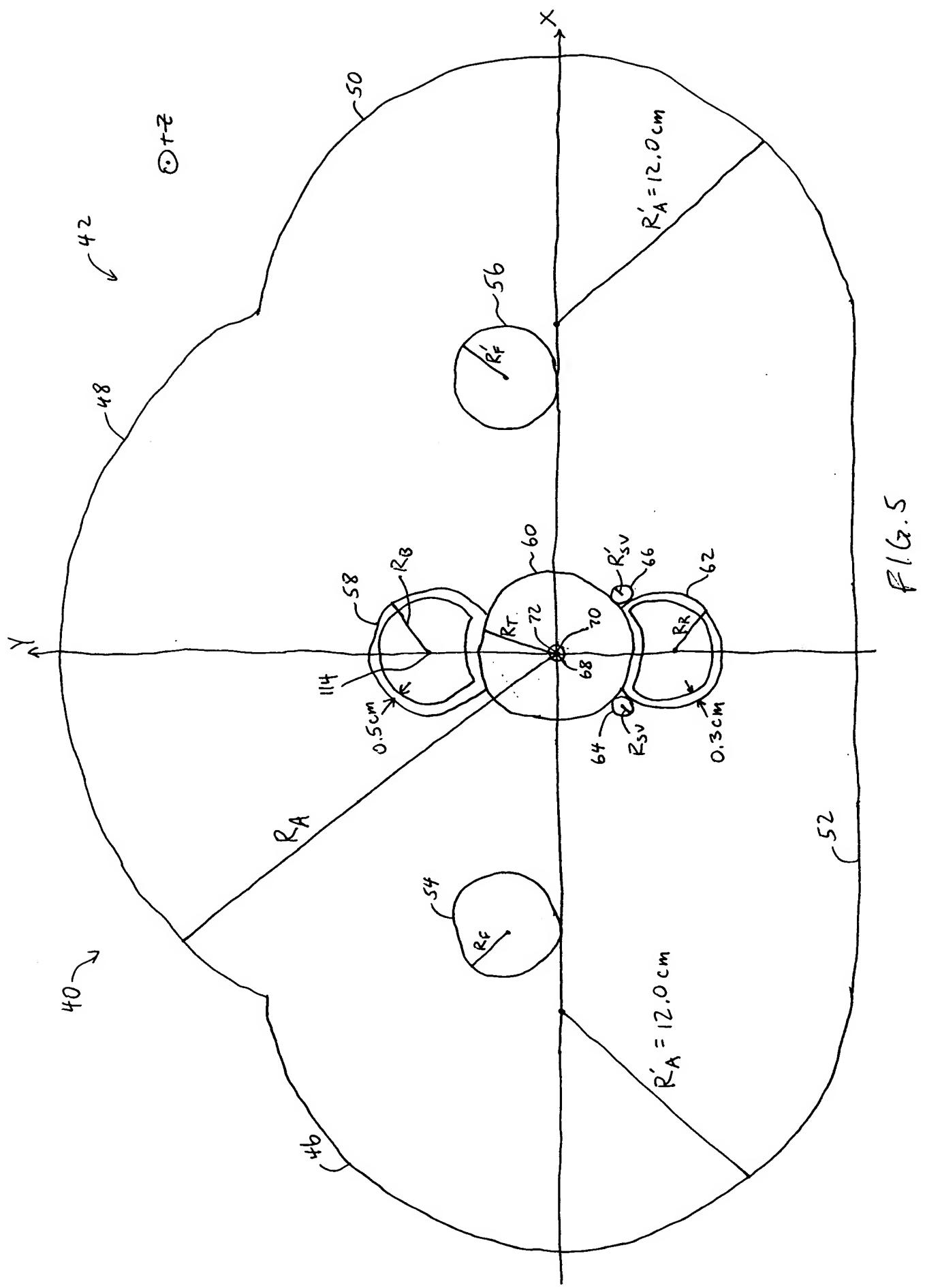


FIG. 4



Anatomy :

OR_A

Z =

130.3 228.3 268.3 (mm)

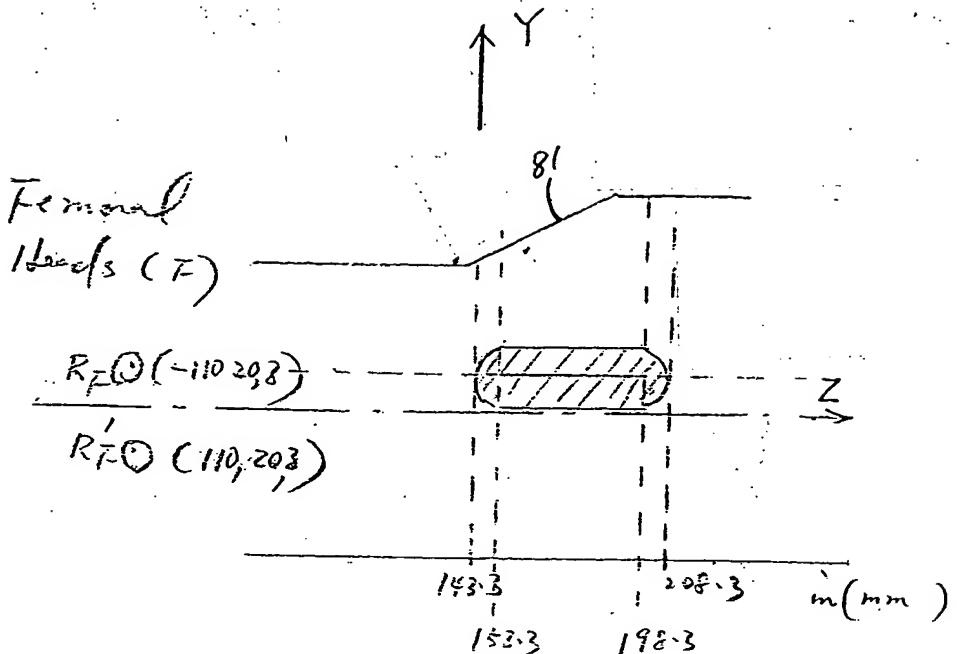
$$R_A = 16.0 \text{ (cm)}$$

$$92 \rightarrow \left\{ \begin{array}{l} (0, 0, Z), \quad Z \in [0, 13.03] \\ (0, 0.5x(Z - 13.03), Z) \quad Z \in [13.03, 22.83] \end{array} \right. \text{ m(cm)}$$

$$\text{Ctr } R_A = \left\{ \begin{array}{l} (0, 0.5x(Z - 13.03), Z) \quad Z \in [13.03, 22.83] \end{array} \right.$$

$$94 \rightarrow (0, 4.9, Z) \quad Z \in [22.83, 26.83]$$

Fig. 6

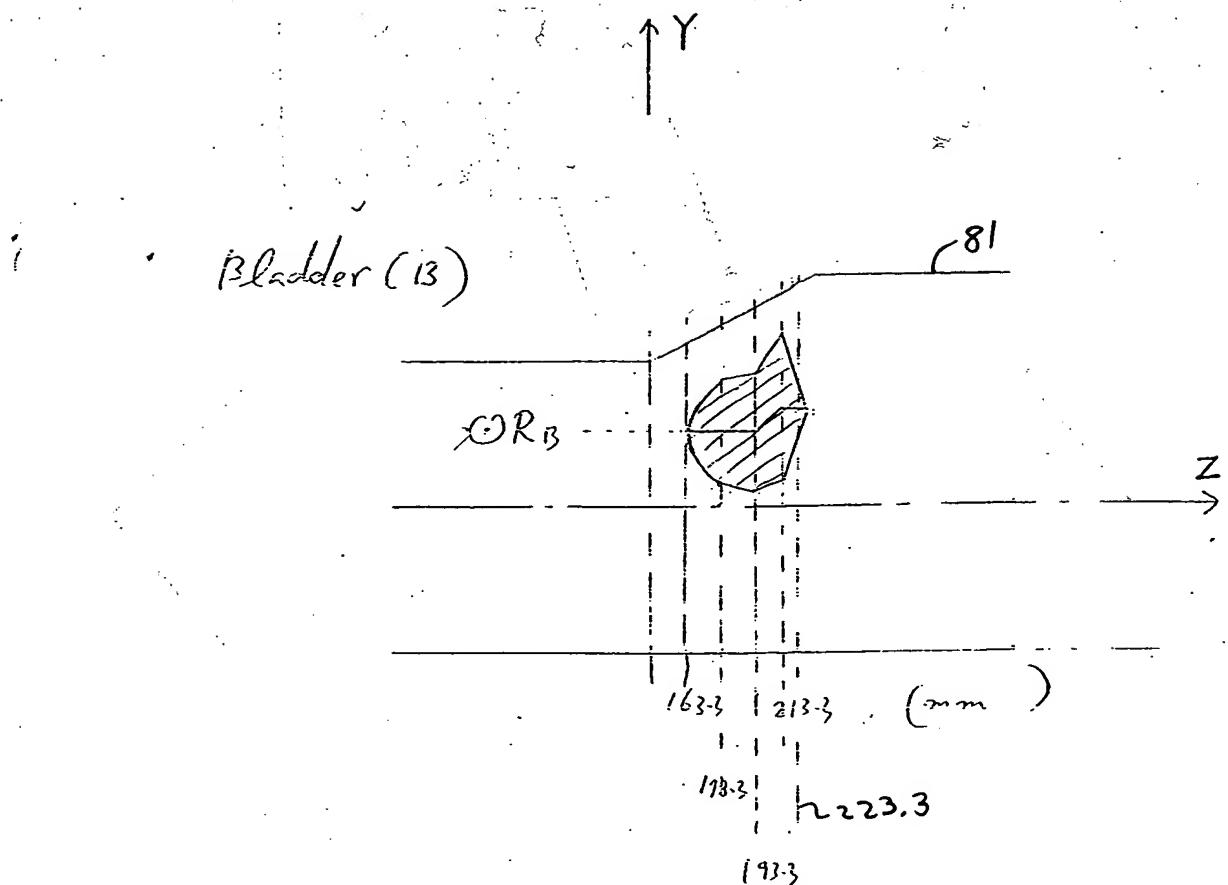


$$R_F = \begin{cases} 2.0 - 0.2x(15.33-Z)^2 & Z \in [14.33, 15.33] \\ 2.0 & Z \in [15.33, 19.83] \\ 2.0 - 0.2x(19.83-Z)^2 & Z \in [19.83, 20.83] \end{cases} \text{ in (cm)}$$

108 { Ctr $R_F = (-11, 2, Z)$
 Ctr $R'_F = (11, 2, Z)$

$Z \in [14.33, 20.83]$

Fig 7

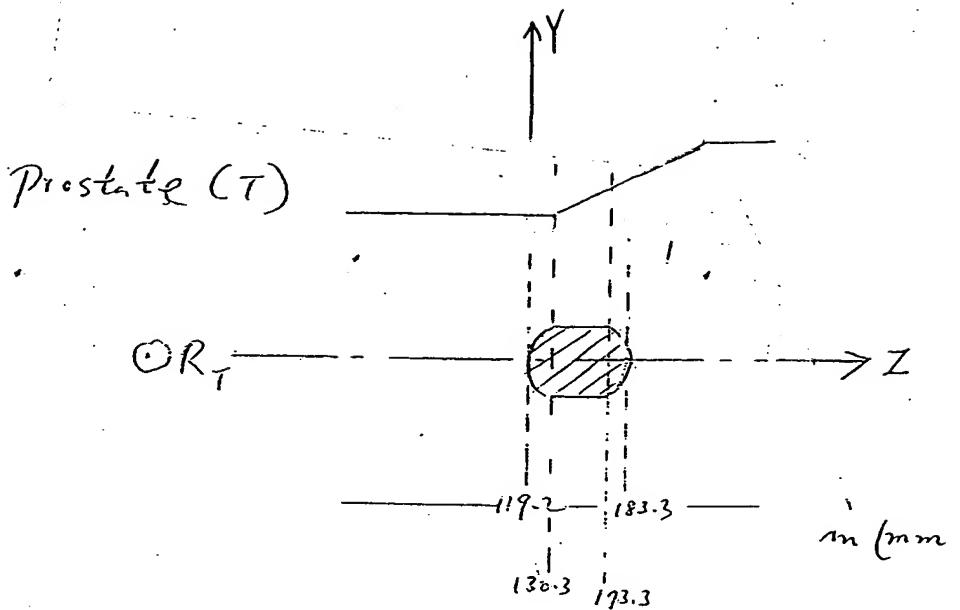


$$R_B = \begin{cases} 2.5 \times (Z - 16.33) & Z \in [16.33, 17.33] \\ 2.5 + 0.5(Z - 17.33) & Z \in [17.33, 21.33] \\ 6.0 - 1.5x(Z - 19.33) & Z \in [21.33, 22.33] \end{cases} \text{ in (cm)}$$

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$$Ctr R_B = \begin{cases} (0, 5.0, Z), \quad Z \in [16.33, 19.33] \\ (0, 5.0 + (Z - 19.33), Z) \quad Z \in [19.33, 21.33] \\ (0, 7.0, Z) \quad Z \in [21.33, 22.83] \end{cases}$$

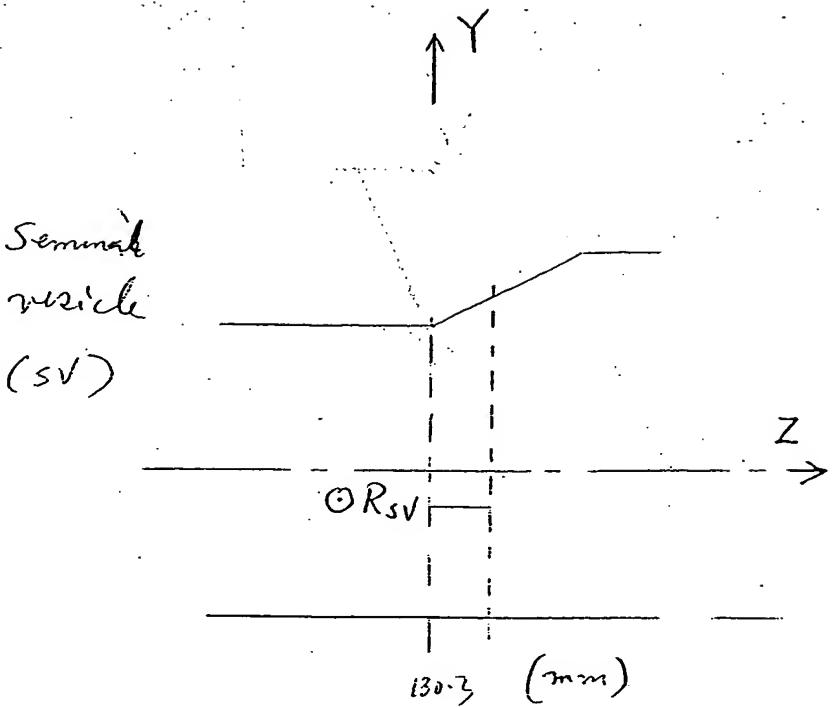
Fig. 8



$$R_T = \begin{cases} 3.0 - 0.25x(Z-13.03)^2 & Z \in [11.92, 13.03] \\ 3.0 & Z \in [13.03, 17.33] \\ 3.0 - 0.25x(Z-17.33)^2 & Z \in [17.33, 18.33] \end{cases} \text{ in (cm)}$$

$$\text{Ctr } R_T = (0, 0, Z) \quad Z \in [11.92, 18.3]$$

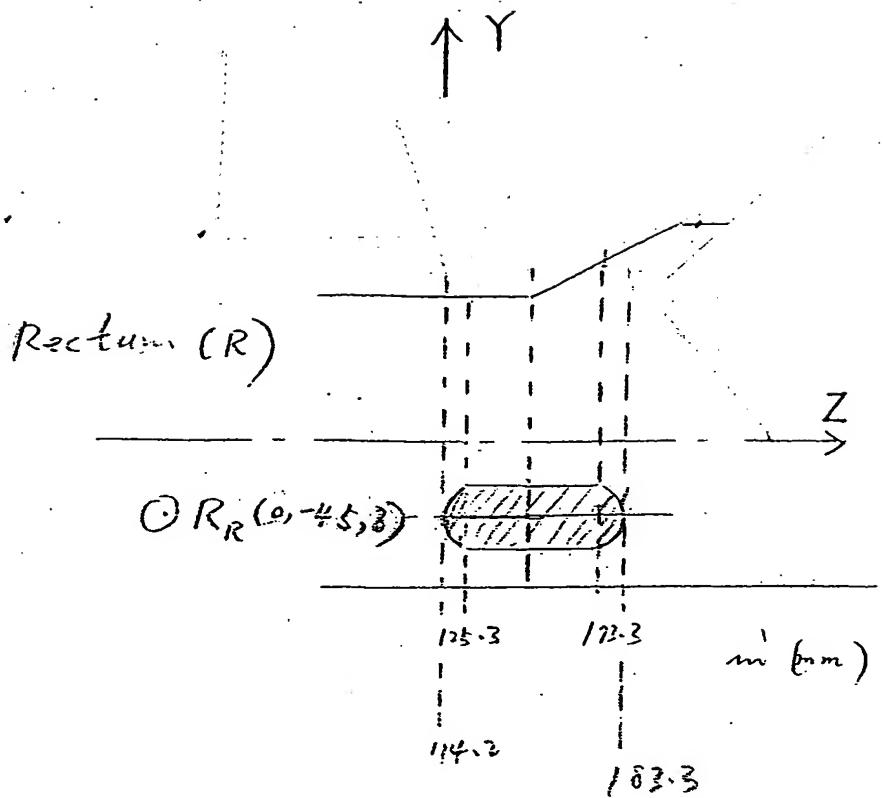
Fig 9



$$R_{sv} = 0.5 \text{ (cm)} \quad Z \in [12.53, 17.33] \quad m \text{ (cm)}$$

$$\begin{aligned} \text{Ctr } R_{sv} &= (-2.0, -2.0, Z) \\ \text{Ctr } R_{sv} &= (2.0, -2.0, Z) \end{aligned} \quad Z \in [13.03, 15.83]$$

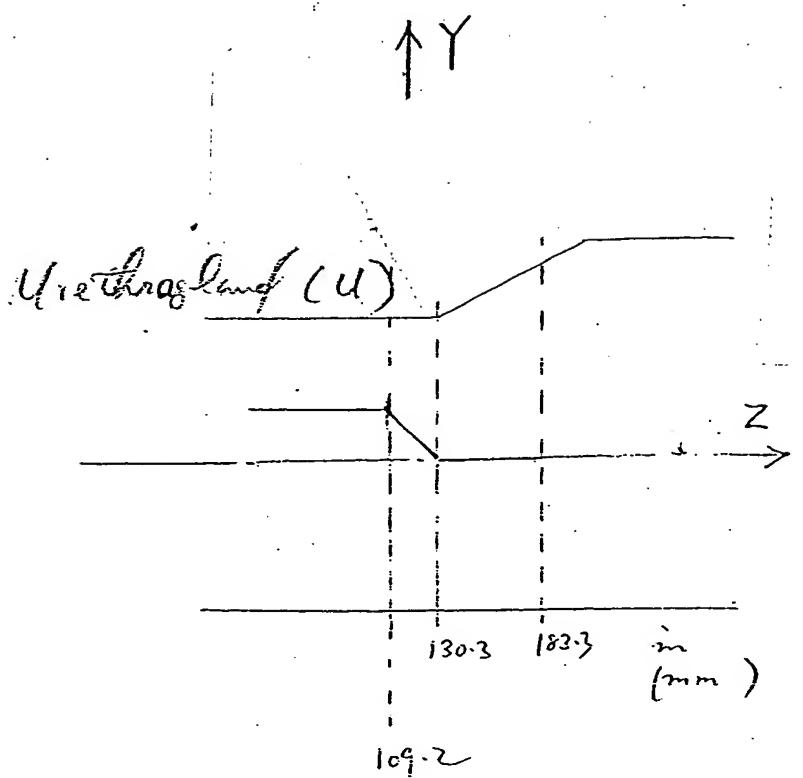
Fig 10



$$R_R = \begin{cases} 2.0 - 0.1x(12.53-Z)^2 & Z \in [11.42, 12.53] \\ 2.0 & Z \in [12.53, 17.33] \\ 2.0 - 0.1x(Z-17.33)^2 & Z \in [17.33, 18.33] \end{cases} \text{ m (cm)}$$

$$\text{Ctr } R_R = (0, -4.5, Z) \quad Z \in [11.42, 18.33]$$

Fig. 11



$$R_v = 0.15 \quad Z \in [12.53, 17.33] \quad m (cm)$$

$$\text{Ctr } R_v = \begin{cases} (0, 2.0, Z), & Z \in [0.5, 10.92] \\ (0, 2.0 + 0.95x(10.92 - Z), Z) & Z \in [10.92, 13.03] \\ (0, 0, Z) & Z \in [13.03, 18.33] \end{cases}$$

Fig. 12

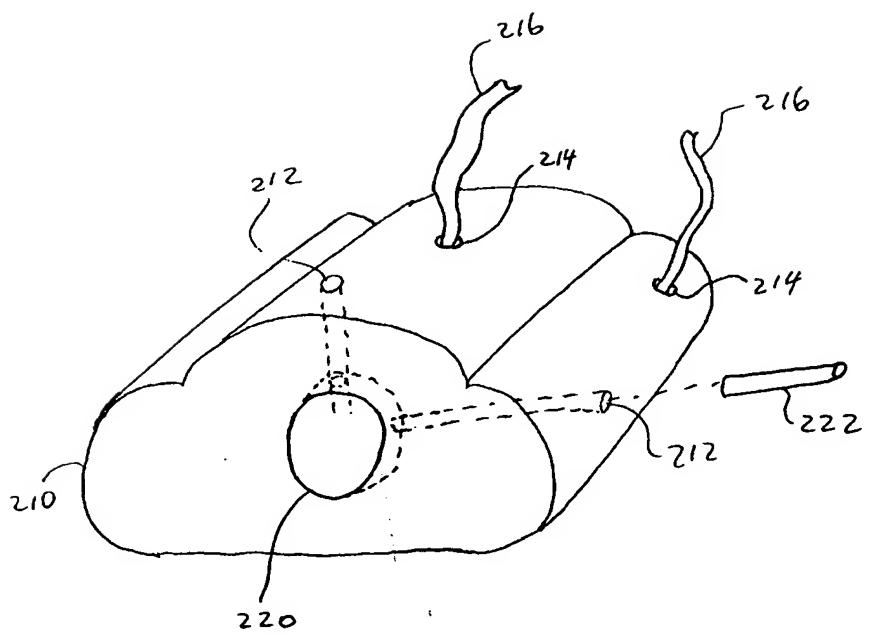


FIG. 13

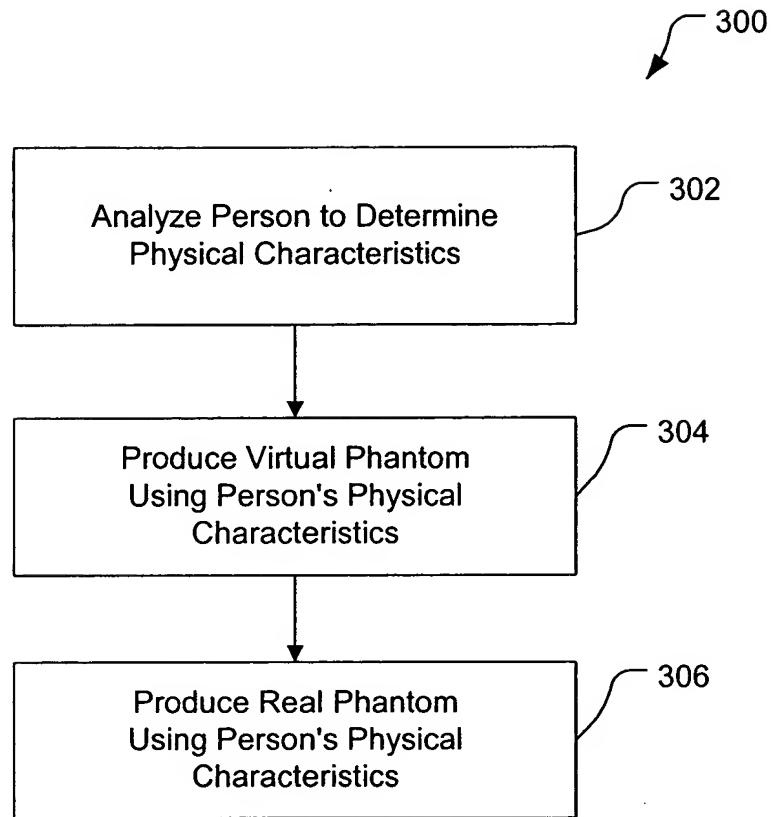


FIG. 14

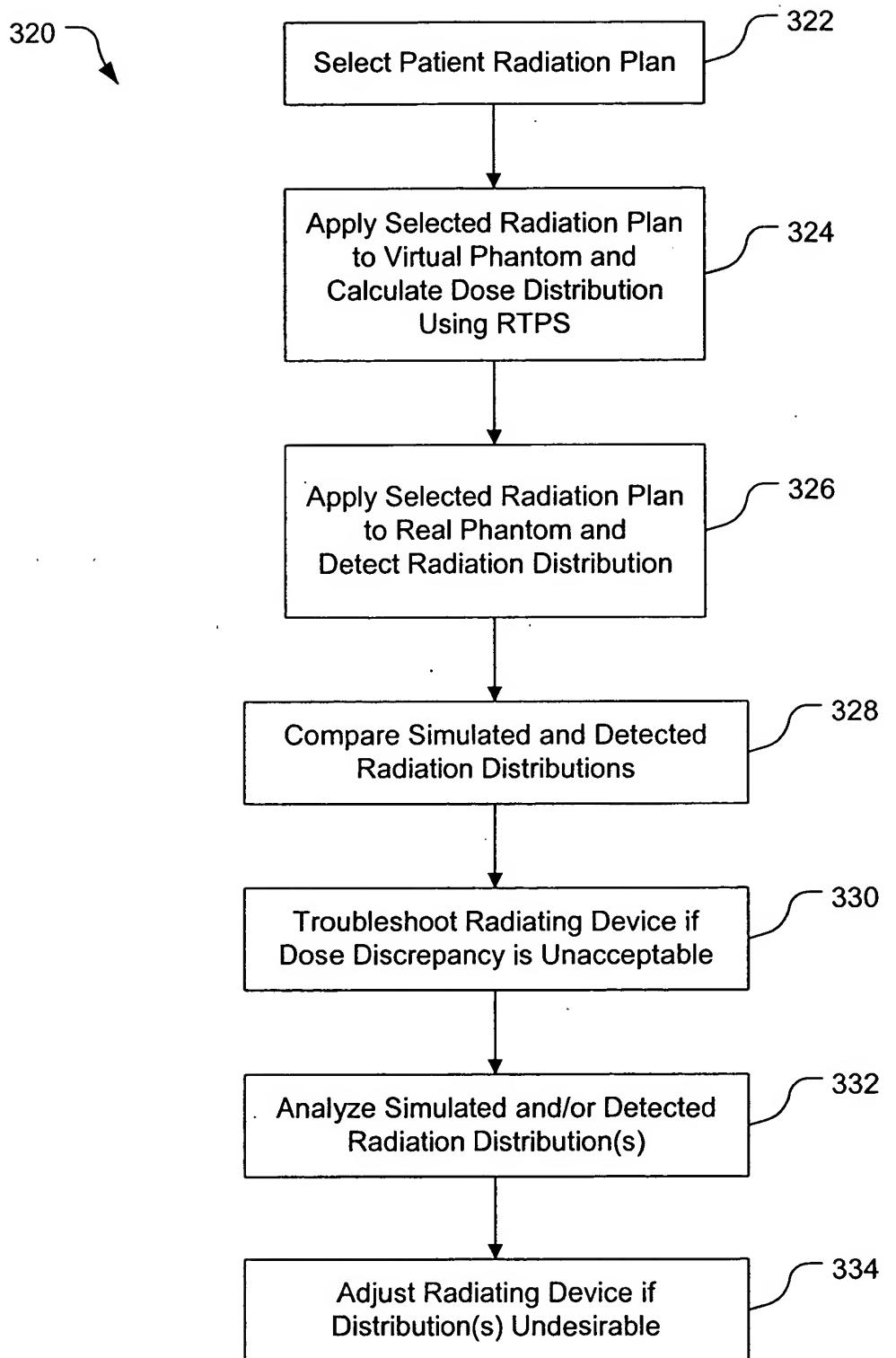


FIG. 15